

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18360WC30002802 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.03.01      | Finish Test Date:  | 2023.03.06        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 22.8°C          | Relative Humidity: | 38%               |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.560        | 2407.520 | 2416.080 | $\geq 0.5$ | PASS    |
|           |         | 2437           | 9.080        | 2432.480 | 2441.560 | $\geq 0.5$ | PASS    |
|           |         | 2462           | 8.040        | 2458.040 | 2466.080 | $\geq 0.5$ | PASS    |
| 11G       | Ant1    | 2412           | 16.320       | 2403.880 | 2420.200 | $\geq 0.5$ | PASS    |
|           |         | 2437           | 16.360       | 2428.840 | 2445.200 | $\geq 0.5$ | PASS    |
|           |         | 2462           | 16.360       | 2453.840 | 2470.200 | $\geq 0.5$ | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.600       | 2403.240 | 2420.840 | $\geq 0.5$ | PASS    |
|           |         | 2437           | 17.680       | 2428.200 | 2445.880 | $\geq 0.5$ | PASS    |
|           |         | 2462           | 17.640       | 2453.200 | 2470.840 | $\geq 0.5$ | PASS    |
| 11N40SISO | Ant1    | 2422           | 31.740       | 2405.740 | 2437.480 | $\geq 0.5$ | PASS    |
|           |         | 2437           | 32.520       | 2420.740 | 2453.260 | $\geq 0.5$ | PASS    |
|           |         | 2452           | 31.920       | 2436.400 | 2468.320 | $\geq 0.5$ | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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11G\_Ant1\_2412



11G\_Ant1\_2437





11G\_Ant1\_2462



11N20SISO\_Ant1\_2412





11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



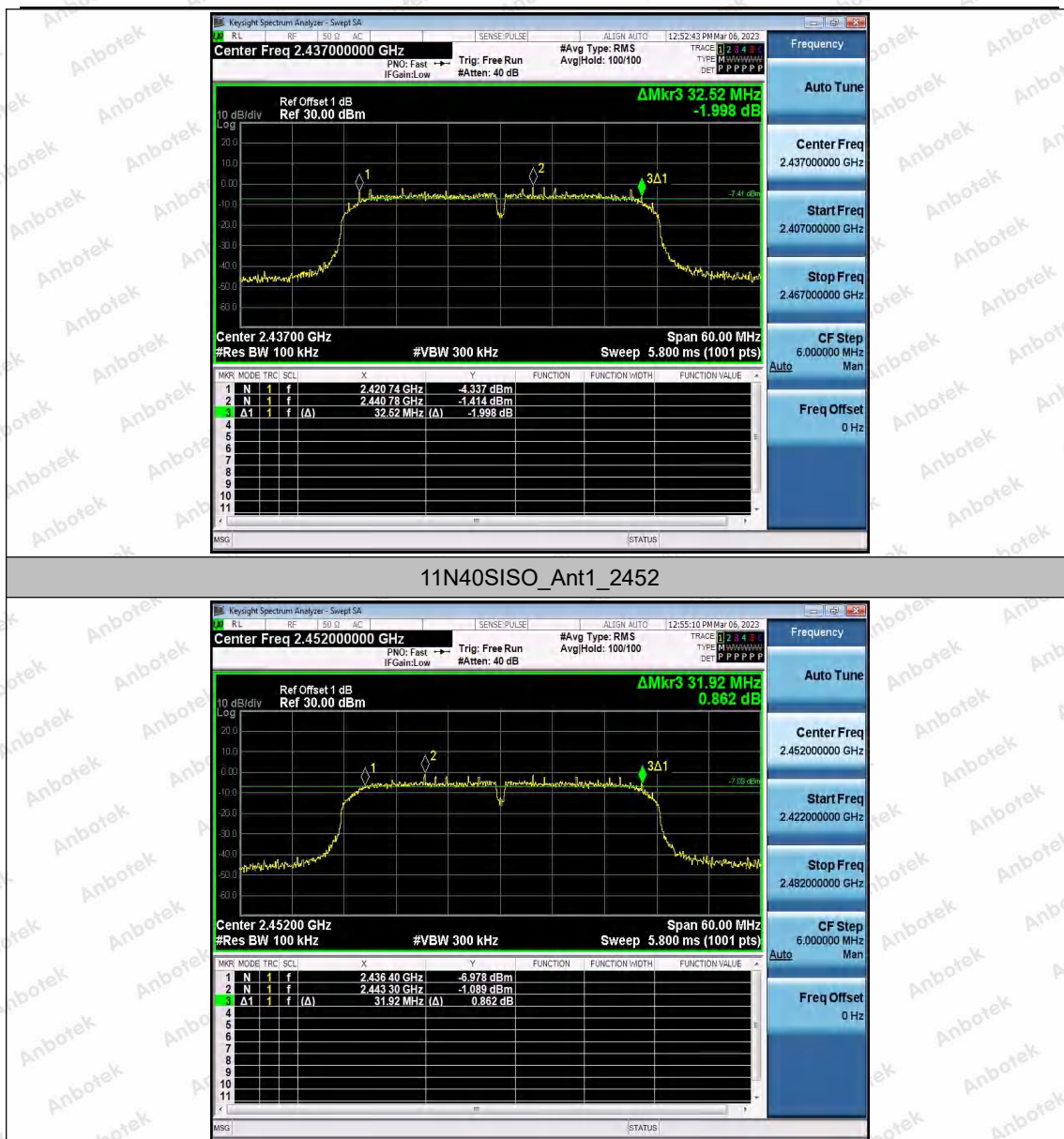


11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437





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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|------------------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412                   | 12.999    | 2405.5488 | 2418.5478 |
|           |         | 2437                   | 12.983    | 2430.5448 | 2443.5278 |
|           |         | 2462                   | 13.056    | 2455.4367 | 2468.4927 |
| 11G       | Ant1    | 2412                   | 17.444    | 2403.3634 | 2420.8074 |
|           |         | 2437                   | 17.400    | 2428.3517 | 2445.7517 |
|           |         | 2462                   | 17.525    | 2453.1942 | 2470.7192 |
| 11N20SISO | Ant1    | 2412                   | 18.438    | 2402.8542 | 2421.2922 |
|           |         | 2437                   | 18.358    | 2427.8667 | 2446.2247 |
|           |         | 2462                   | 18.496    | 2452.8086 | 2471.3046 |
| 11N40SISO | Ant1    | 2422                   | 34.585    | 2404.8177 | 2439.4027 |
|           |         | 2437                   | 34.613    | 2419.7191 | 2454.3321 |
|           |         | 2452                   | 34.606    | 2434.7653 | 2469.3713 |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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11G\_Ant1\_2412



11G\_Ant1\_2437

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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

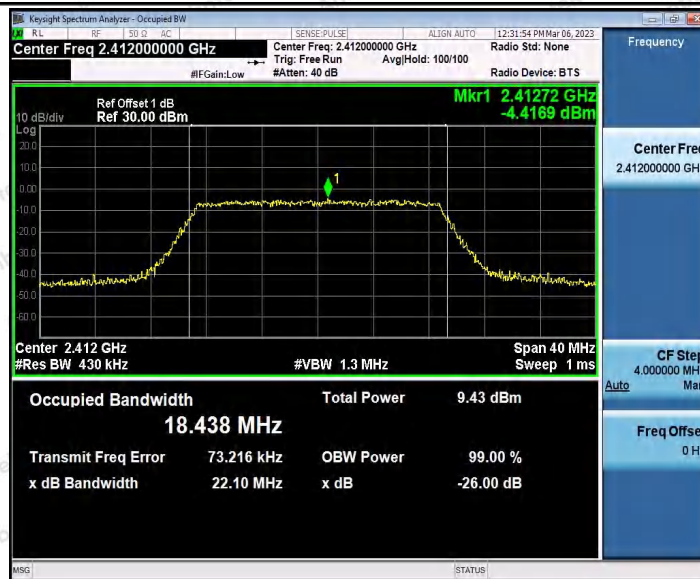
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11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

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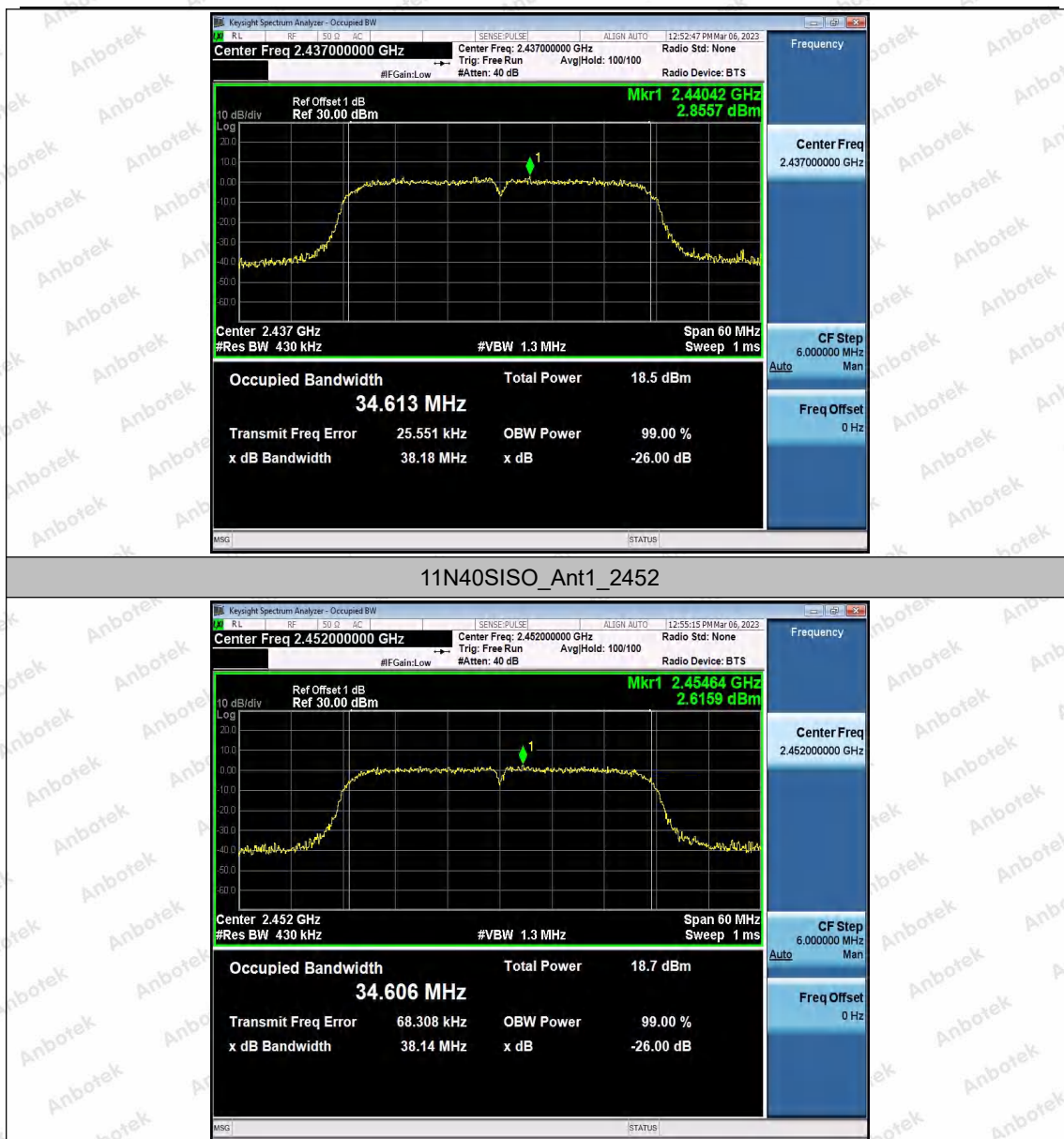


11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437





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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412           | 20.03           | ≤30.00               | PASS    |
|           |         | 2437           | 20.86           | ≤30.00               | PASS    |
|           |         | 2462           | 21.44           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412           | 20.10           | ≤30.00               | PASS    |
|           |         | 2437           | 20.54           | ≤30.00               | PASS    |
|           |         | 2462           | 20.84           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.93           | ≤30.00               | PASS    |
|           |         | 2437           | 19.47           | ≤30.00               | PASS    |
|           |         | 2462           | 19.84           | ≤30.00               | PASS    |
| 11N40SISO | Ant1    | 2422           | 17.08           | ≤30.00               | PASS    |
|           |         | 2437           | 17.48           | ≤30.00               | PASS    |
|           |         | 2452           | 17.80           | ≤30.00               | PASS    |



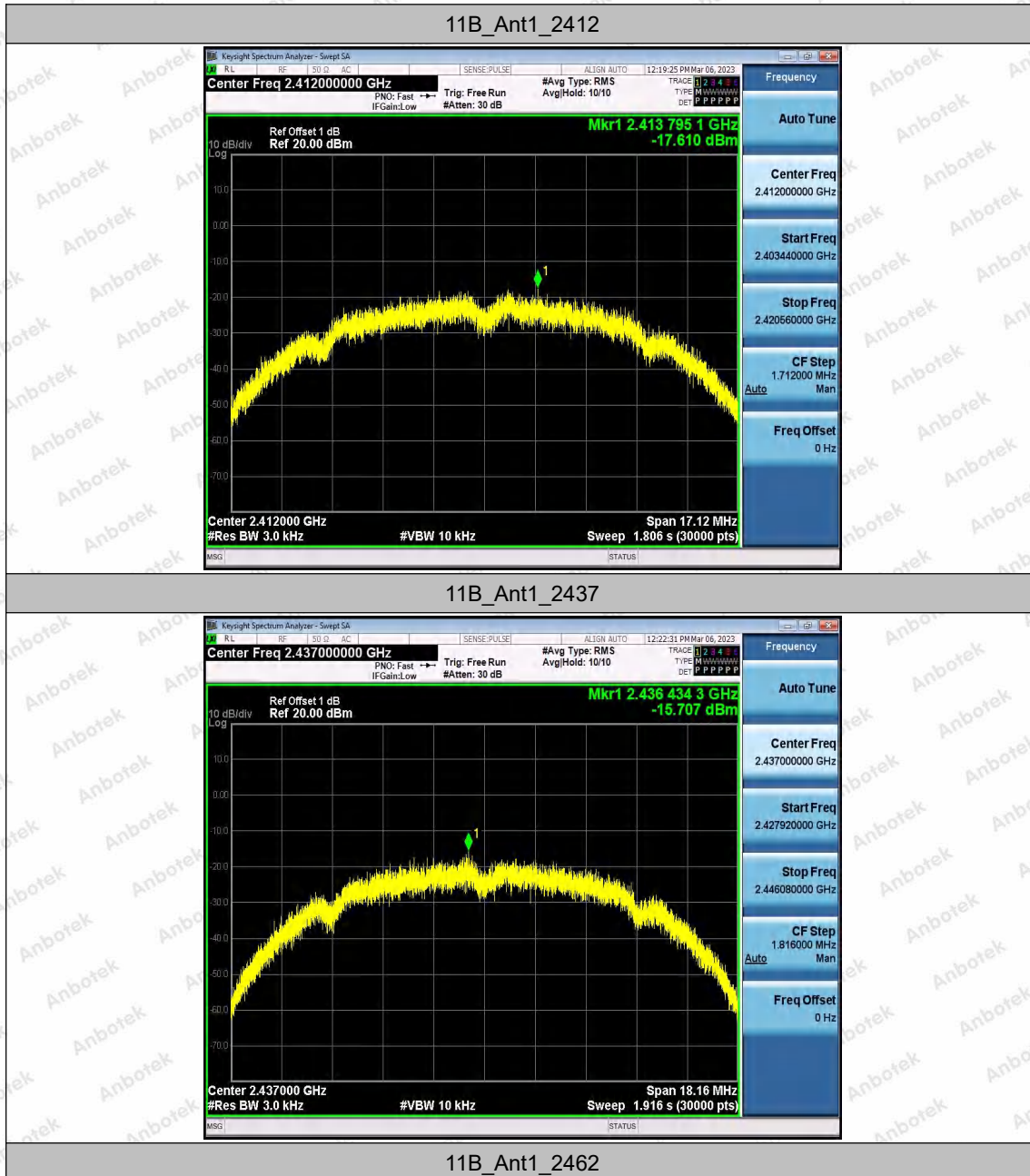
## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -17.61           | ≤8.00           | PASS    |
|           |         | 2437           | -15.71           | ≤8.00           | PASS    |
|           |         | 2462           | -15.54           | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -21.26           | ≤8.00           | PASS    |
|           |         | 2437           | -20.09           | ≤8.00           | PASS    |
|           |         | 2462           | -18.24           | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -21.2            | ≤8.00           | PASS    |
|           |         | 2437           | -12.87           | ≤8.00           | PASS    |
|           |         | 2462           | -12.3            | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422           | -15.43           | ≤8.00           | PASS    |
|           |         | 2437           | -14.22           | ≤8.00           | PASS    |
|           |         | 2452           | -14.38           | ≤8.00           | PASS    |



## Test Graphs



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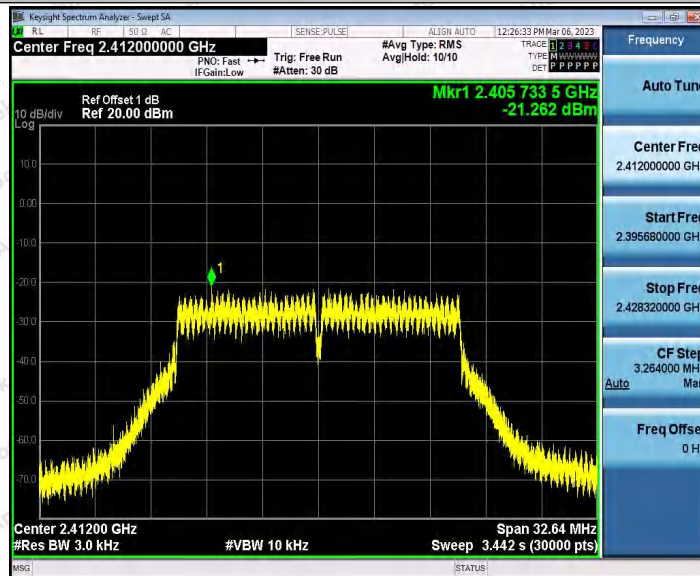


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11G\_Ant1\_2412



11G\_Ant1\_2437

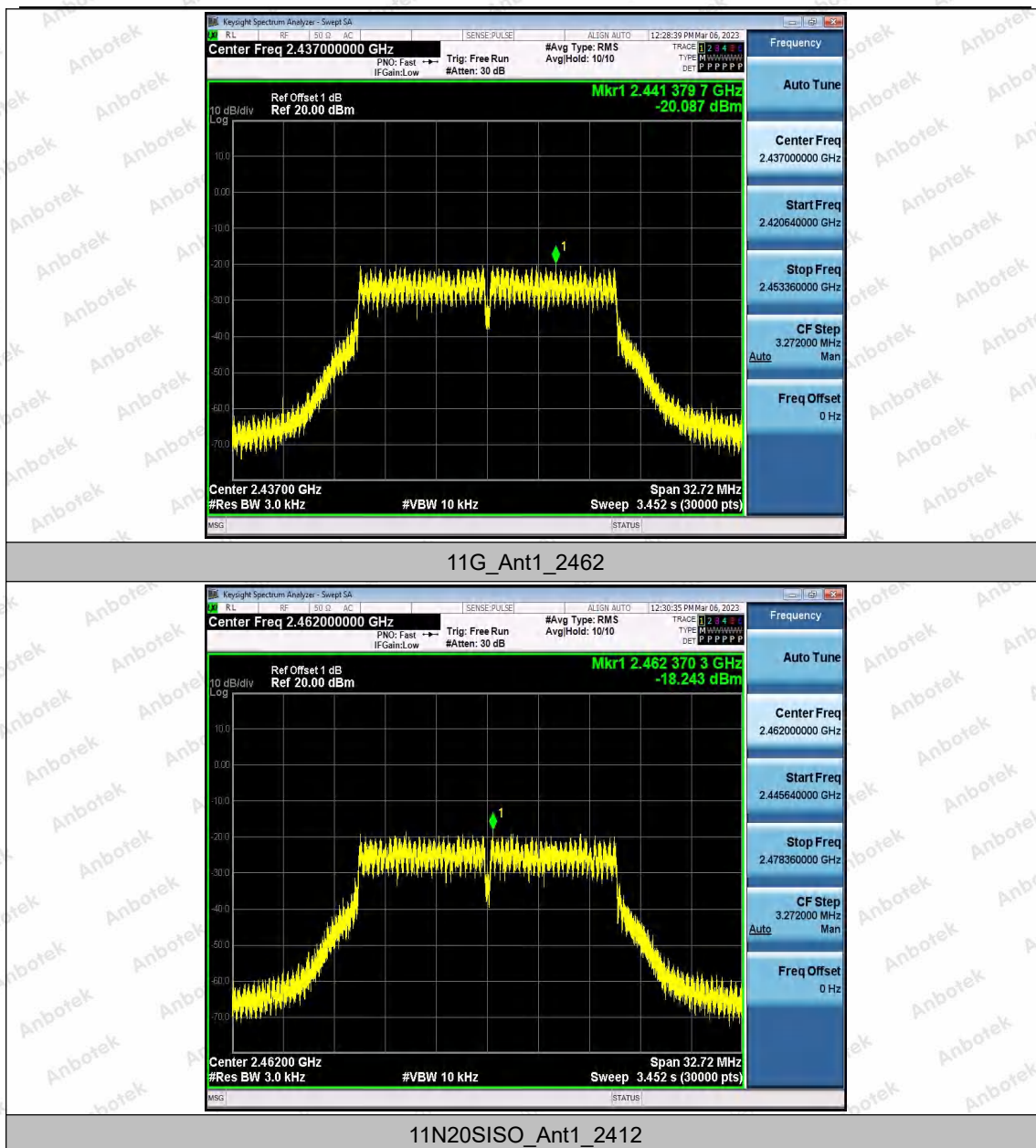
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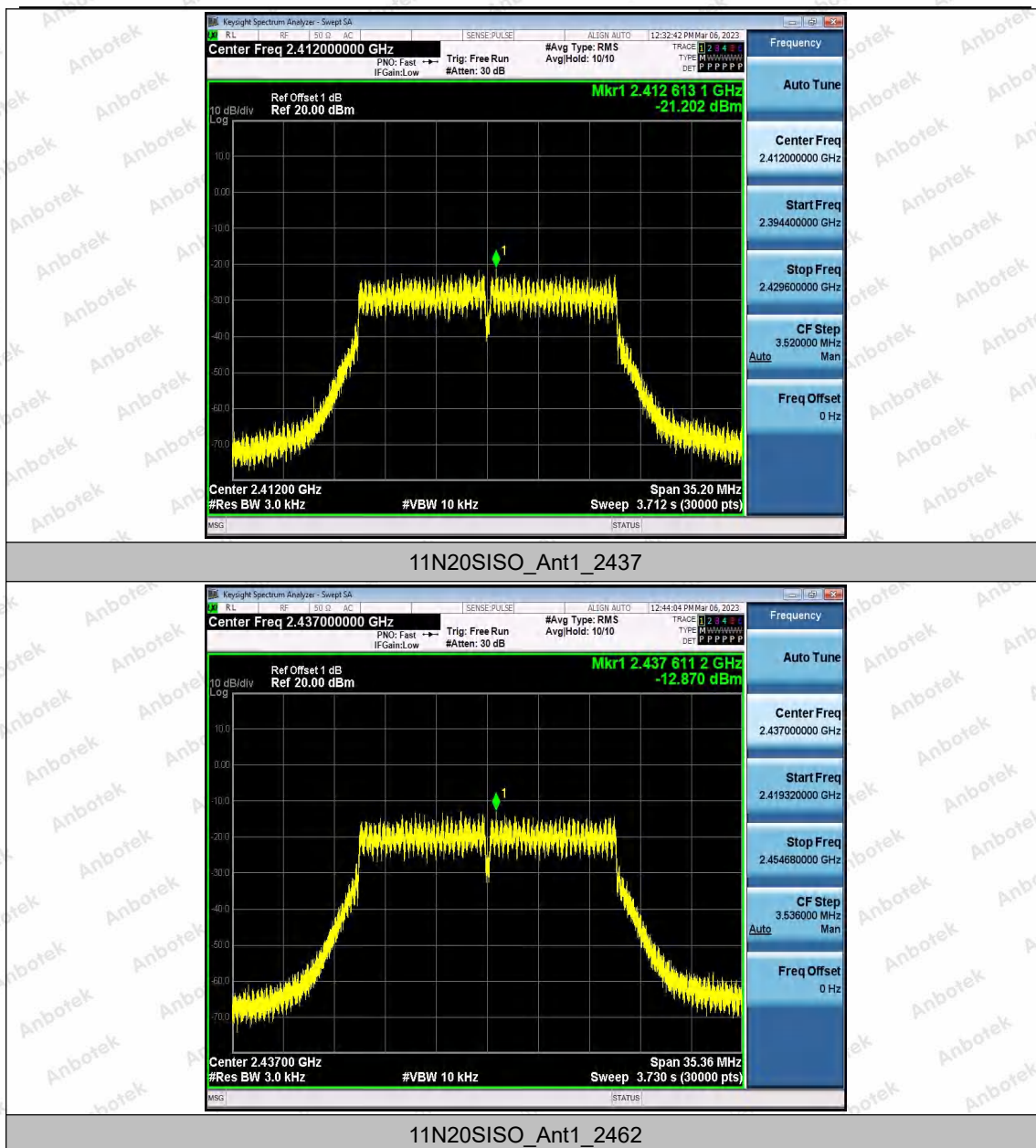
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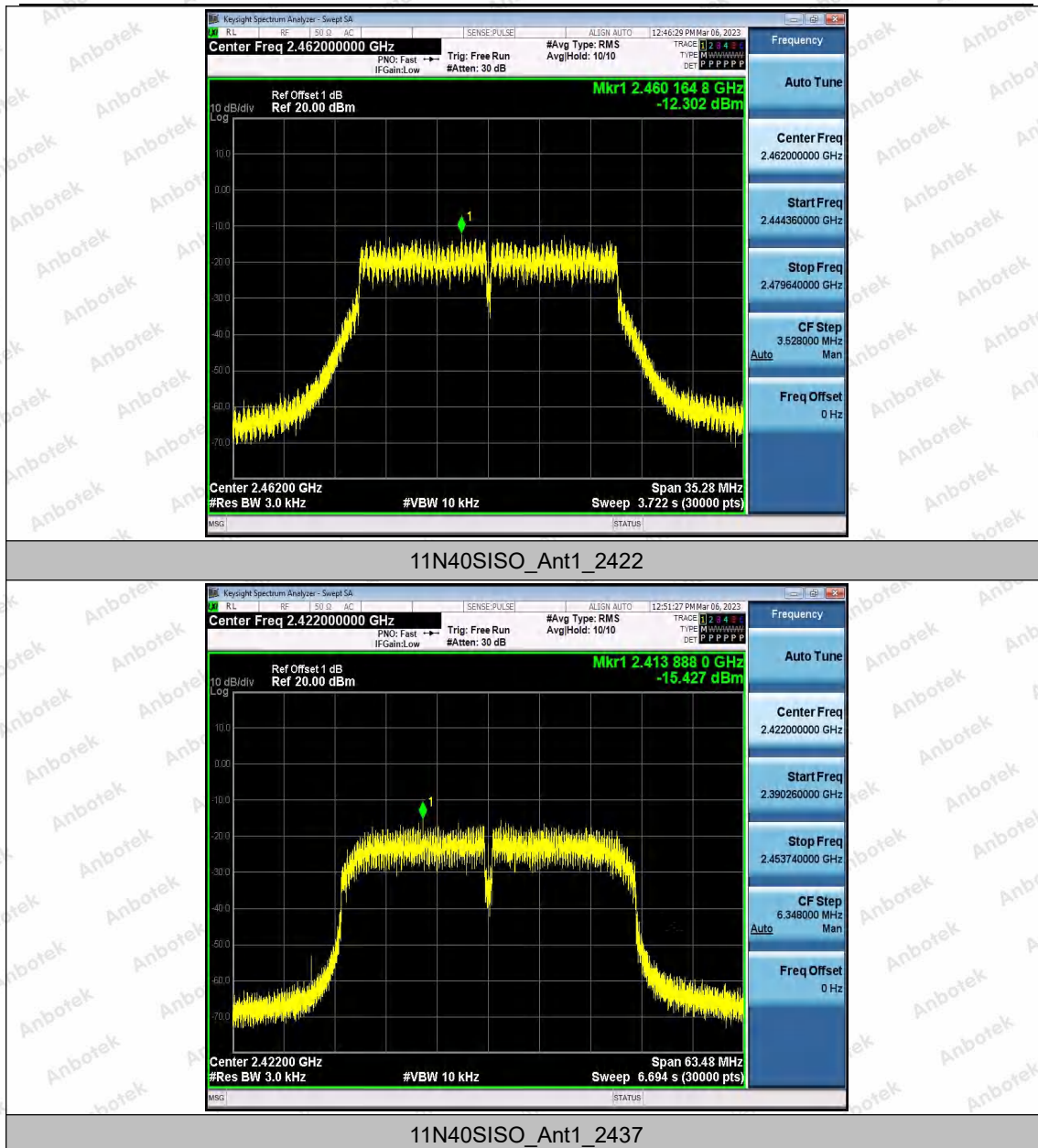
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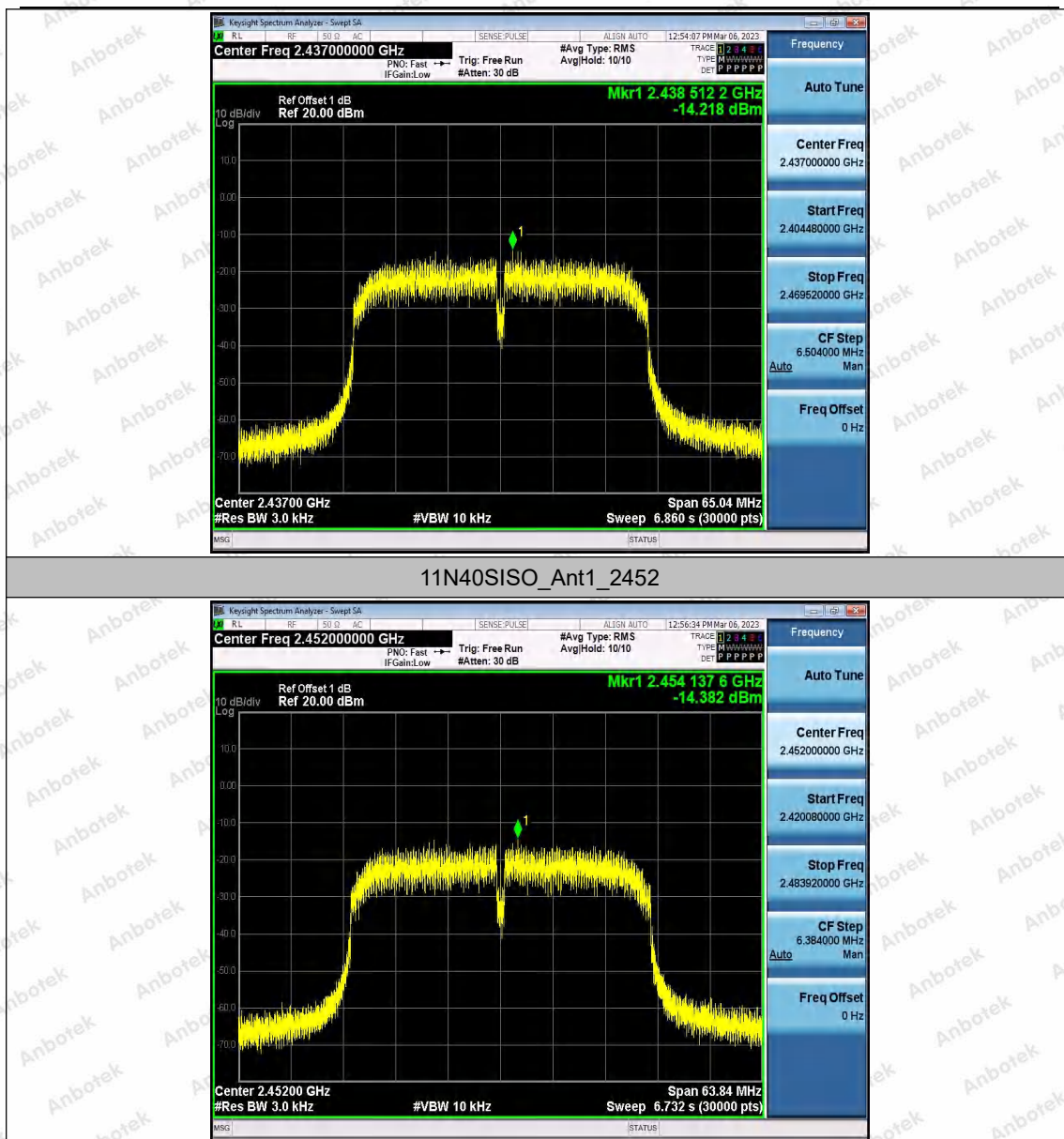
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## Appendix E: Band edge measurements

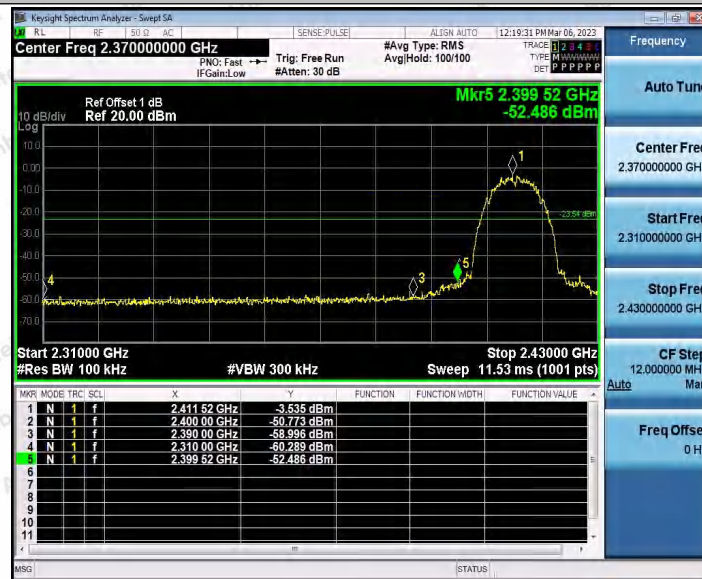
### Test Result

| TestMode  | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412               | -3.54         | -52.49      | ≤-23.54    | PASS    |
|           |         | High   | 2462               | -0.81         | -56.37      | ≤-20.81    | PASS    |
| 11G       | Ant1    | Low    | 2412               | -9.88         | -46.1       | ≤-29.88    | PASS    |
|           |         | High   | 2462               | -4.40         | -52.75      | ≤-24.4     | PASS    |
| 11N20SISO | Ant1    | Low    | 2412               | -0.34         | -38.23      | ≤-20.34    | PASS    |
|           |         | High   | 2462               | 0.82          | -47.78      | ≤-19.18    | PASS    |
| 11N40SISO | Ant1    | Low    | 2422               | -2.36         | -45.18      | ≤-22.36    | PASS    |
|           |         | High   | 2452               | -1.56         | -44.64      | ≤-21.56    | PASS    |



## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

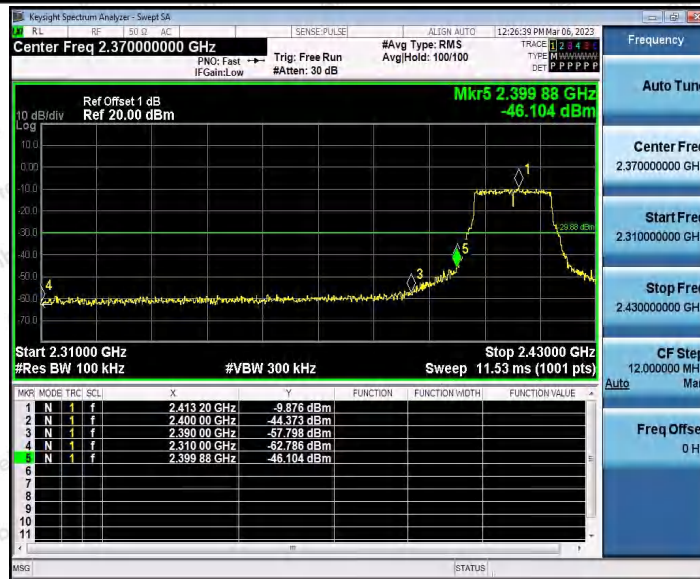
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11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412

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11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422





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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | -5.59          | -5.59        | ---         | PASS    |
|           |         |                | 30~1000         | -5.59          | -46.32       | ≤-25.59     | PASS    |
|           |         |                | 1000~26500      | -5.59          | -44.18       | ≤-25.59     | PASS    |
|           |         | 2437           | Reference       | -3.86          | -3.86        | ---         | PASS    |
|           |         |                | 30~1000         | -3.86          | -46.04       | ≤-23.86     | PASS    |
|           |         |                | 1000~26500      | -3.86          | -44.09       | ≤-23.86     | PASS    |
|           |         | 2462           | Reference       | -1.80          | -1.80        | ---         | PASS    |
|           |         |                | 30~1000         | -1.80          | -46.69       | ≤-21.8      | PASS    |
|           |         |                | 1000~26500      | -1.80          | -38.45       | ≤-21.8      | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 1.83           | 1.83         | ---         | PASS    |
|           |         |                | 30~1000         | 1.83           | -67.95       | ≤-18.17     | PASS    |
|           |         |                | 1000~26500      | 1.83           | -53.61       | ≤-18.17     | PASS    |
|           |         | 2437           | Reference       | -8.48          | -8.48        | ---         | PASS    |
|           |         |                | 30~1000         | -8.48          | -48.05       | ≤-28.48     | PASS    |
|           |         |                | 1000~26500      | -8.48          | -42.88       | ≤-28.48     | PASS    |
|           |         | 2462           | Reference       | -7.40          | -7.40        | ---         | PASS    |
|           |         |                | 30~1000         | -7.40          | -47.01       | ≤-27.4      | PASS    |
|           |         |                | 1000~26500      | -7.40          | -38.26       | ≤-27.4      | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -7.49          | -7.49        | ---         | PASS    |
|           |         |                | 30~1000         | -7.49          | -46.75       | ≤-27.49     | PASS    |
|           |         |                | 1000~26500      | -7.49          | -29.48       | ≤-27.49     | PASS    |
|           |         | 2437           | Reference       | -2.90          | -2.90        | ---         | PASS    |
|           |         |                | 30~1000         | -2.90          | -68.45       | ≤-22.9      | PASS    |
|           |         |                | 1000~26500      | -2.90          | -53.01       | ≤-22.9      | PASS    |
|           |         | 2462           | Reference       | -2.33          | -2.33        | ---         | PASS    |
|           |         |                | 30~1000         | -2.33          | -68.38       | ≤-22.33     | PASS    |
|           |         |                | 1000~26500      | -2.33          | -41.43       | ≤-22.33     | PASS    |
| 11N40SISO | Ant1    | 2422           | Reference       | -1.93          | -1.93        | ---         | PASS    |
|           |         |                | 30~1000         | -1.93          | -63.18       | ≤-21.93     | PASS    |
|           |         |                | 1000~26500      | -1.93          | -52.91       | ≤-21.93     | PASS    |
|           |         | 2437           | Reference       | -2.82          | -2.82        | ---         | PASS    |
|           |         |                | 30~1000         | -2.82          | -65.89       | ≤-22.82     | PASS    |
|           |         |                | 1000~26500      | -2.82          | -51.13       | ≤-22.82     | PASS    |
|           |         | 2452           | Reference       | -4.71          | -4.71        | ---         | PASS    |
|           |         |                | 30~1000         | -4.71          | -62.35       | ≤-24.71     | PASS    |
|           |         |                | 1000~26500      | -4.71          | -50.92       | ≤-24.71     | PASS    |

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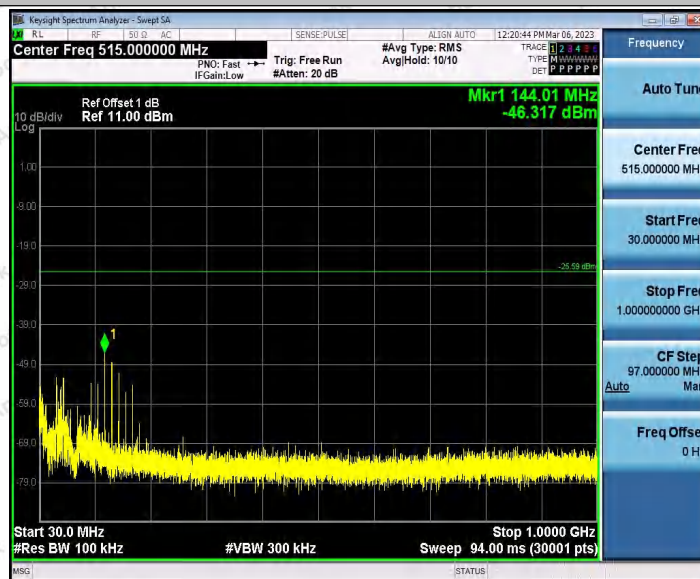


## Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500

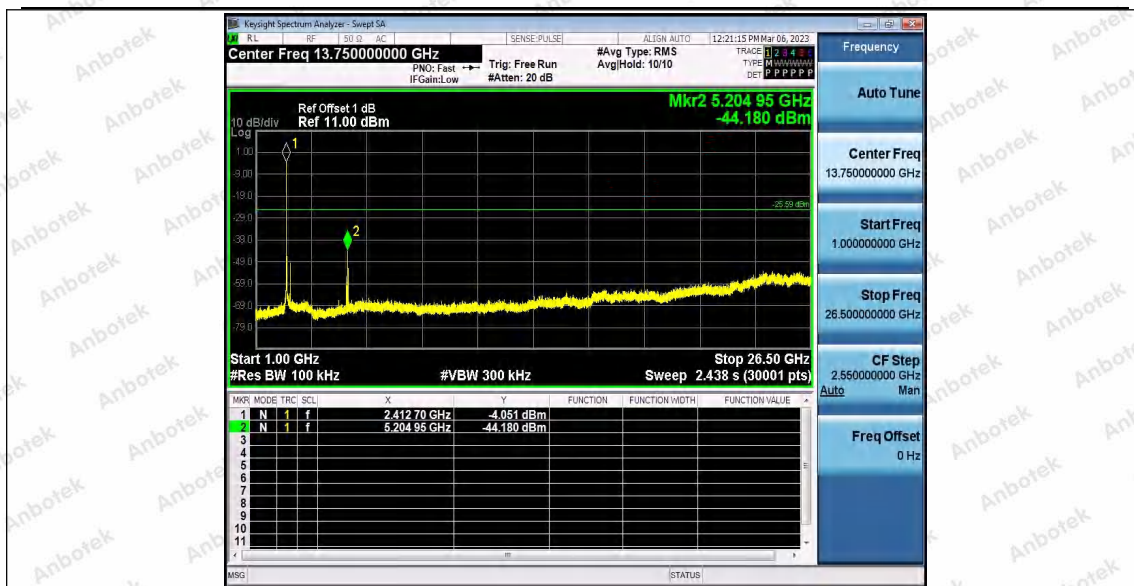
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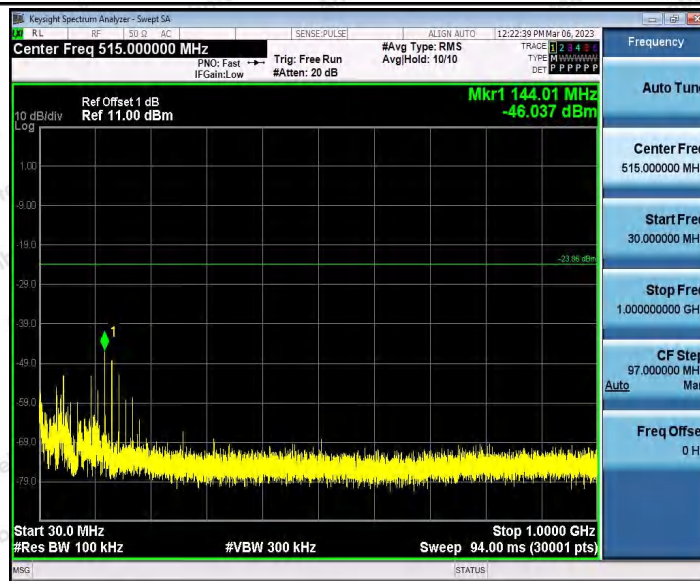


11B\_Ant1\_2437\_0~Reference

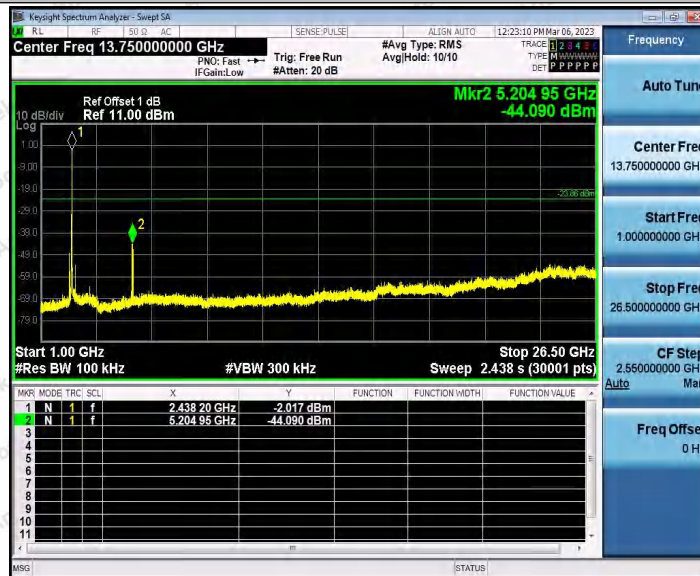


11B\_Ant1\_2437\_30~1000





11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

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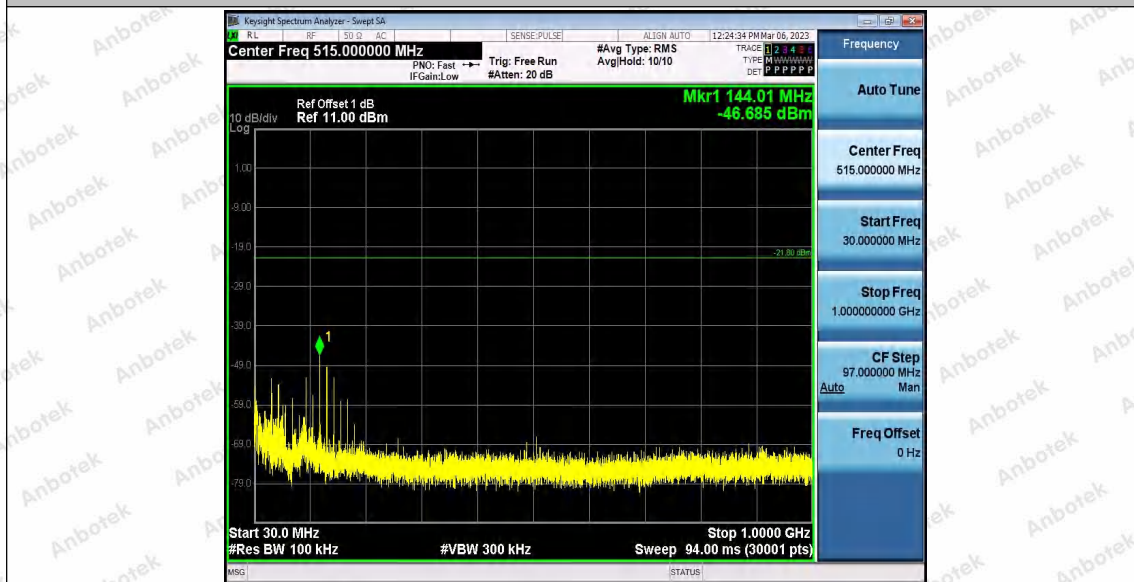


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11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500

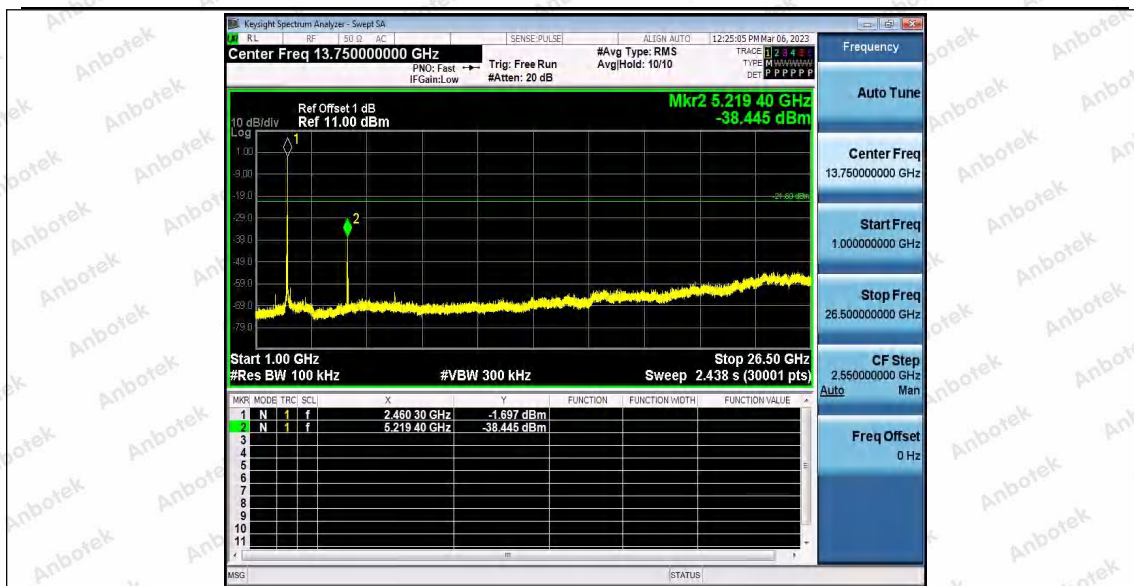
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11G\_Ant1\_2412\_0~Reference

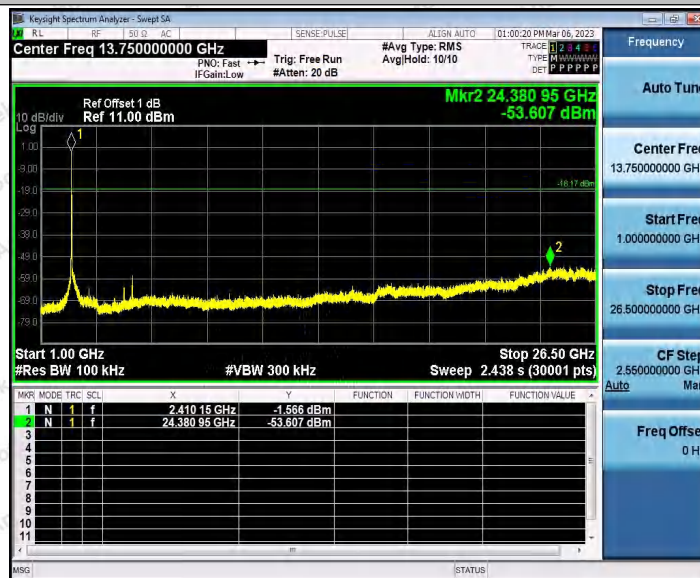


11G\_Ant1\_2412\_30~1000





11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

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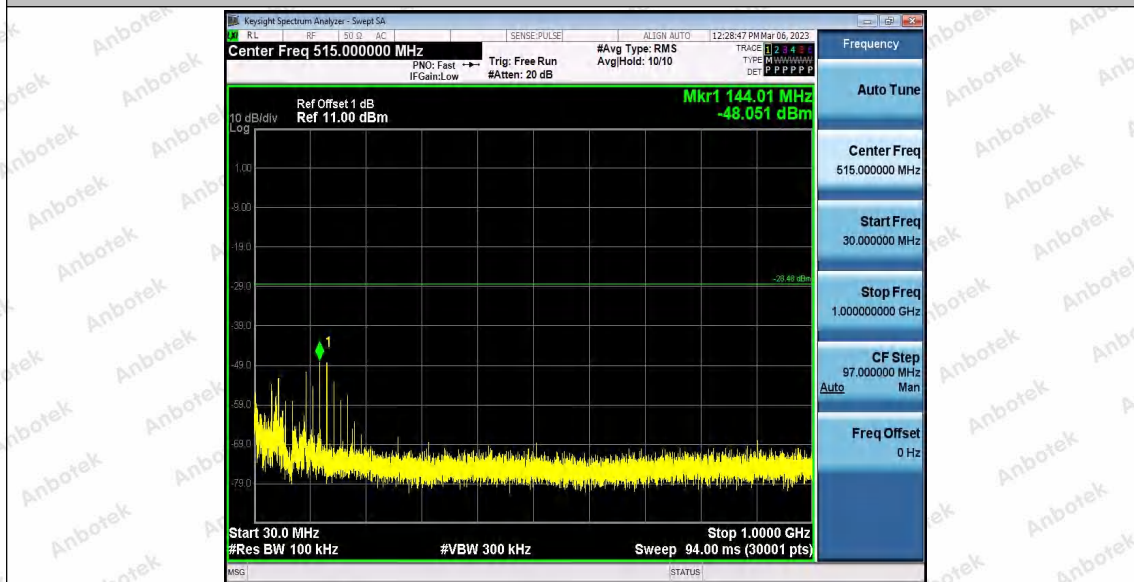


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11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



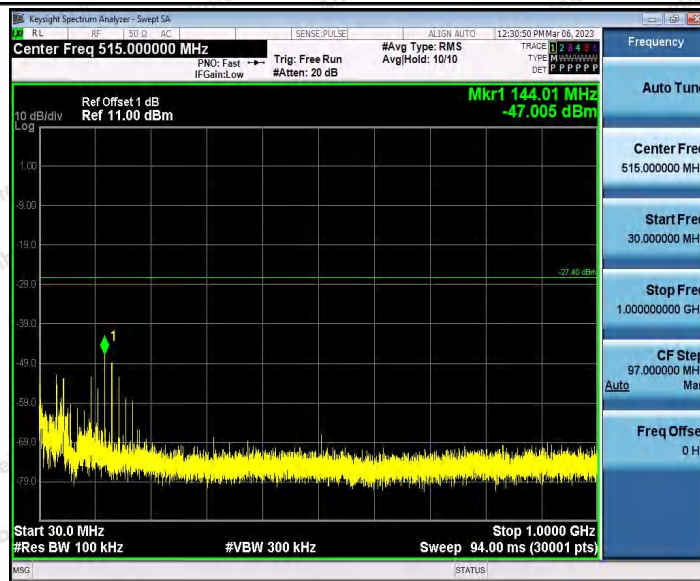


11G\_Ant1\_2462\_0~Reference



11G\_Ant1\_2462\_30~1000





11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference

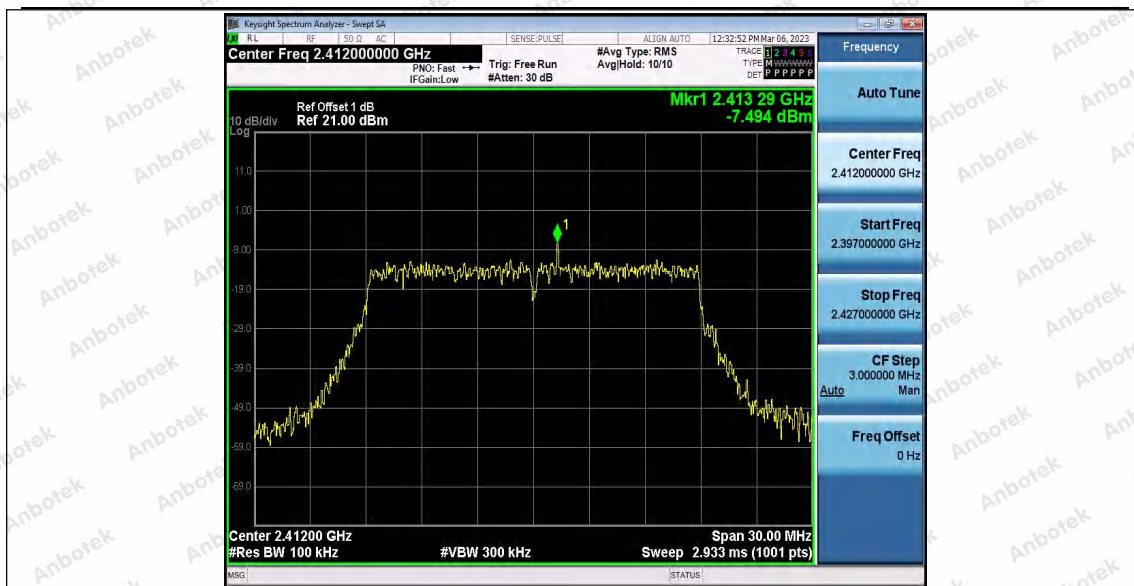
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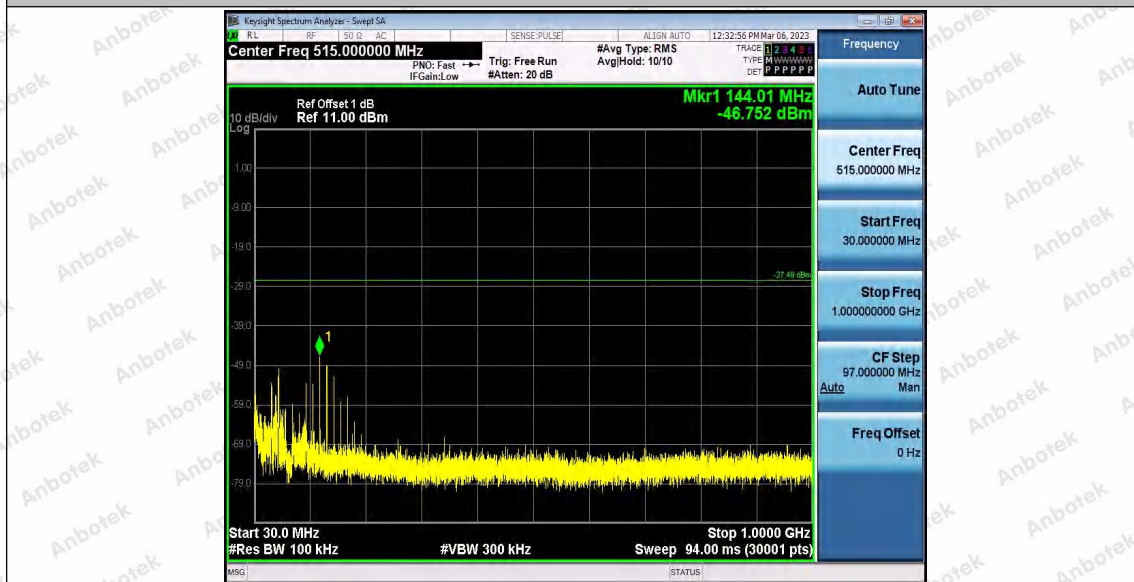


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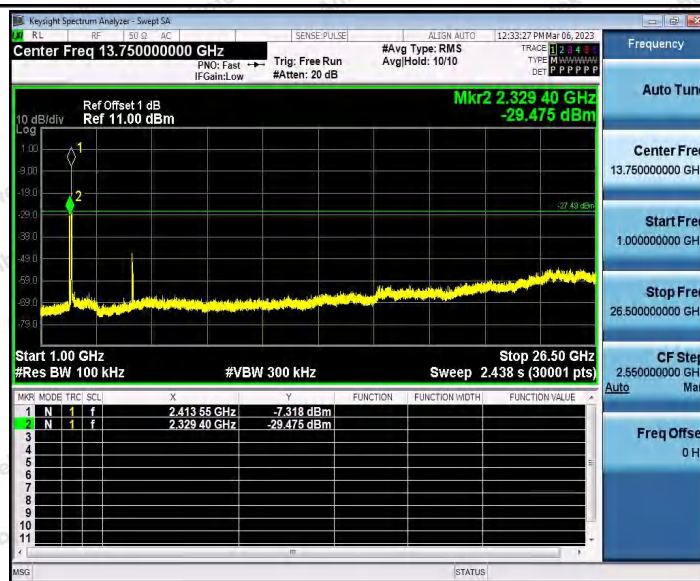


11N20SISO\_Ant1\_2412\_30~1000



11N20SISO\_Ant1\_2412\_1000~26500





11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000

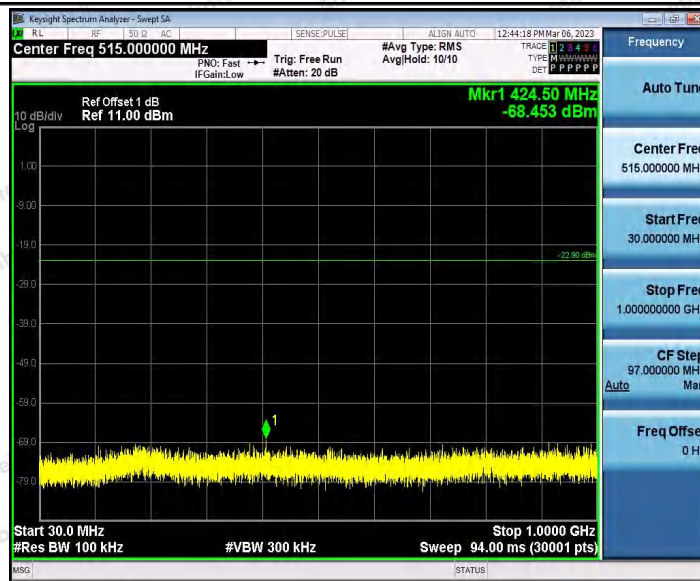
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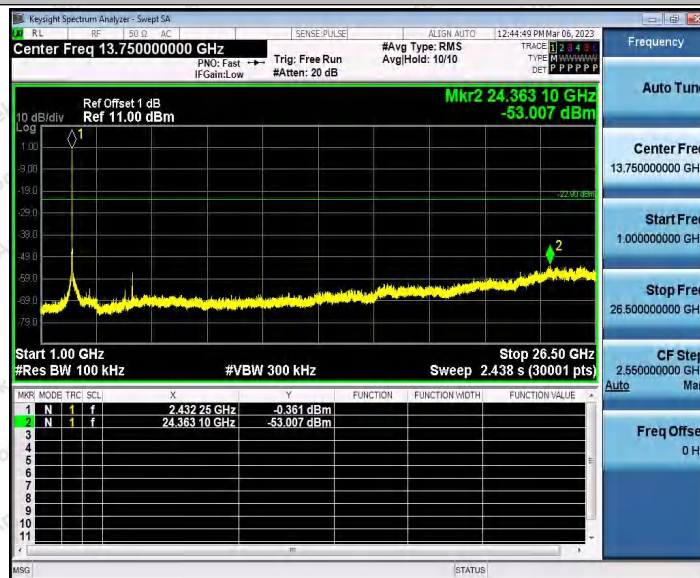


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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference

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11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500

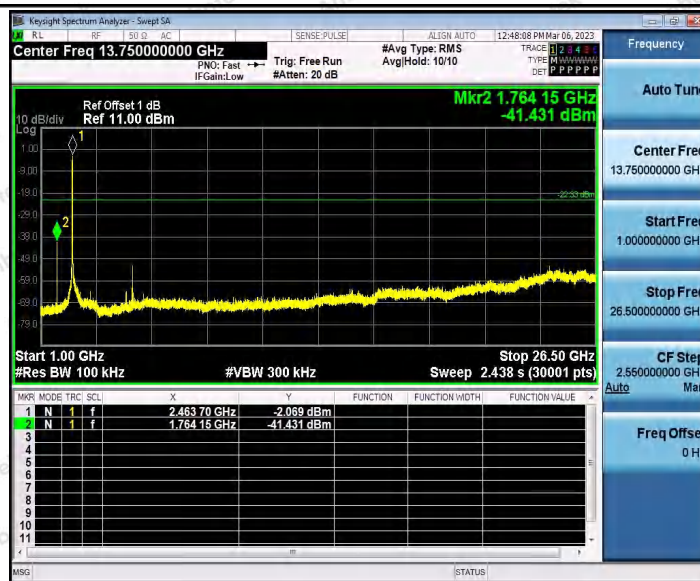
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11N40SISO\_Ant1\_2422\_0~Reference



11N40SISO\_Ant1\_2422\_30~1000

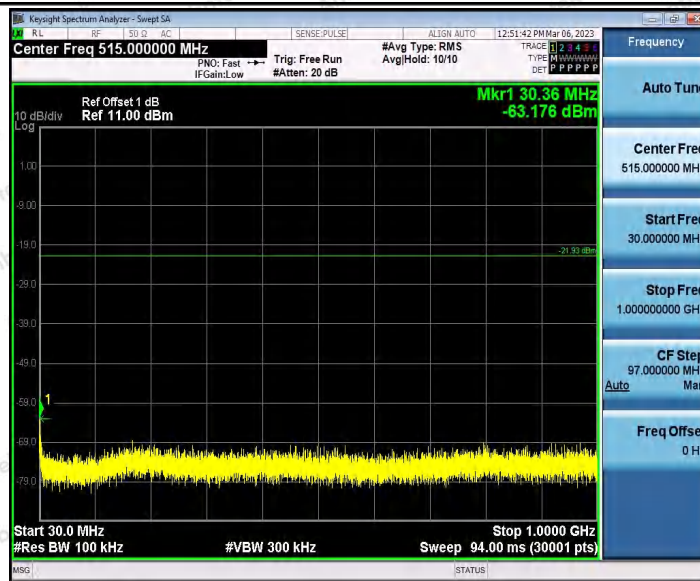
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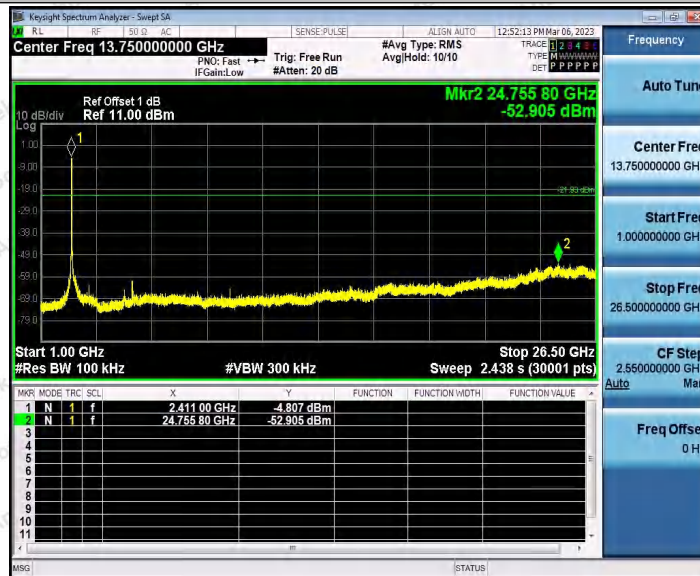


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11N40SISO\_Ant1\_2422\_1000~26500

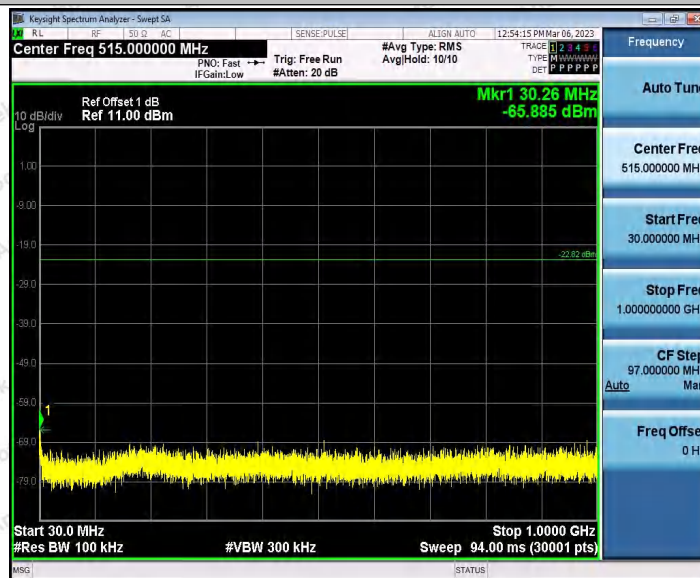


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11N40SISO\_Ant1\_2437\_30~1000



11N40SISO\_Ant1\_2437\_1000~26500

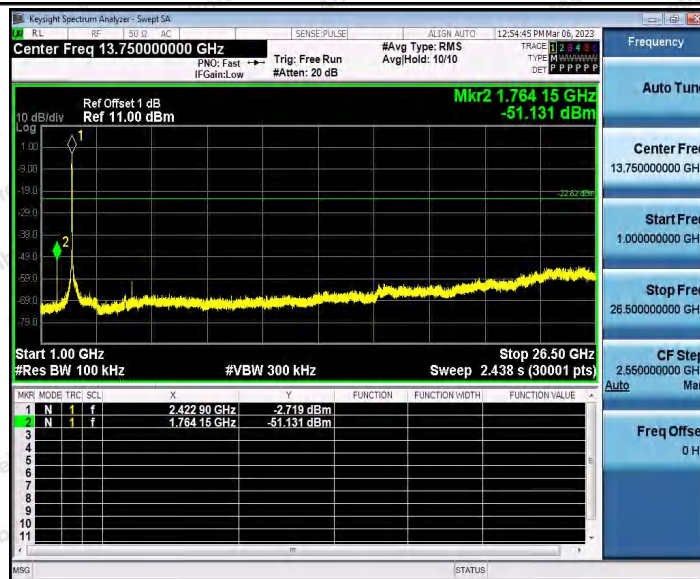
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11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000

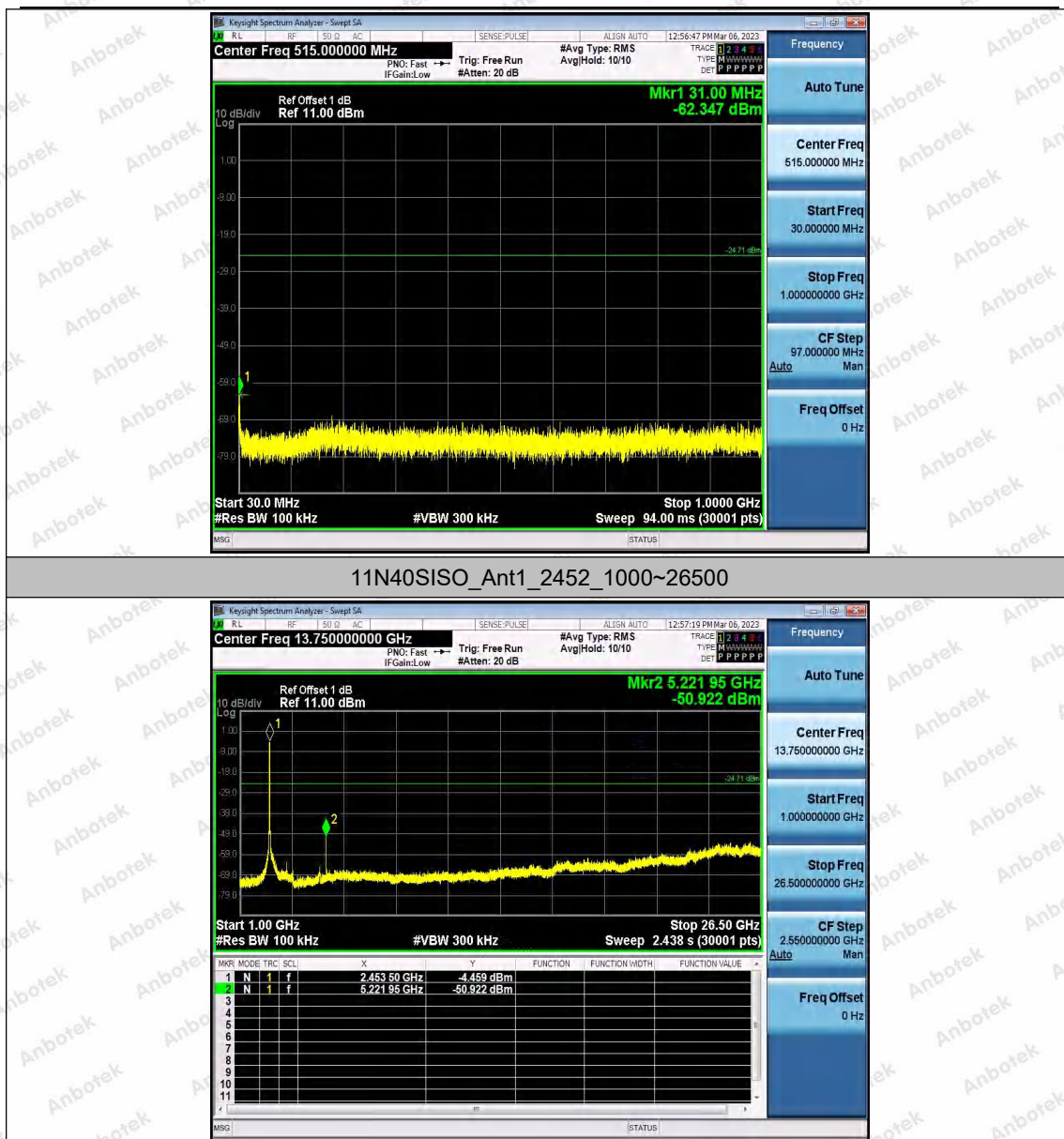
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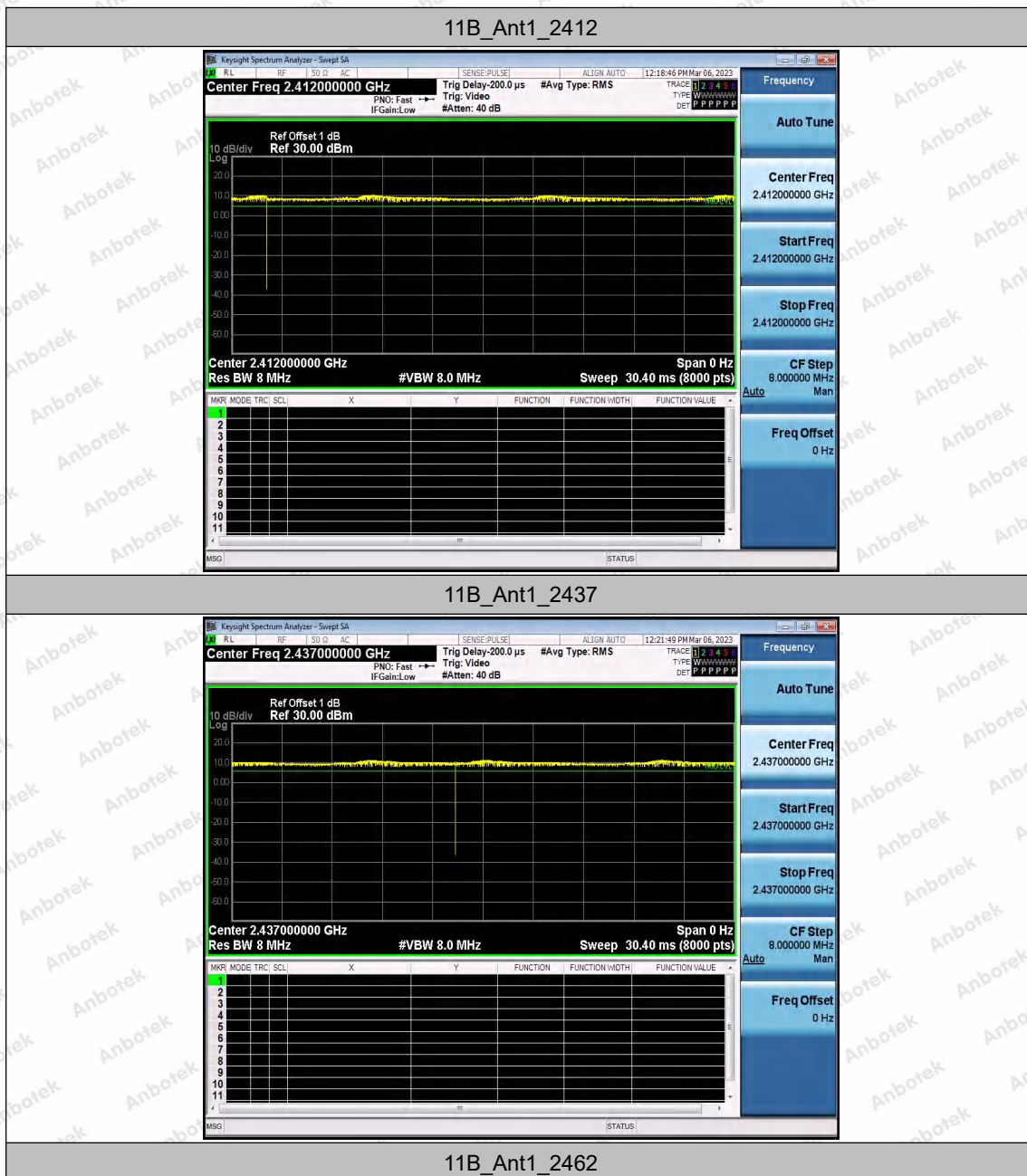
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Transmission<br>Duration<br>[ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|----------------|----------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412           | 30.00                            | 30.00                       | 100.00            | 0.00   |
|           |         | 2437           | 30.00                            | 30.00                       | 100.00            | 0.00   |
|           |         | 2462           | 30.00                            | 30.00                       | 100.00            | 0.00   |
| 11G       | Ant1    | 2412           | 5.48                             | 5.51                        | 99.46             | 0.02   |
|           |         | 2437           | 5.48                             | 5.51                        | 99.46             | 0.02   |
|           |         | 2462           | 5.48                             | 5.51                        | 99.46             | 0.02   |
| 11N20SISO | Ant1    | 2412           | 5.09                             | 5.11                        | 99.61             | 0.02   |
|           |         | 2437           | 5.08                             | 5.11                        | 99.41             | 0.03   |
|           |         | 2462           | 5.08                             | 5.11                        | 99.41             | 0.03   |
| 11N40SISO | Ant1    | 2422           | 2.46                             | 2.49                        | 98.80             | 0.05   |
|           |         | 2437           | 2.46                             | 2.49                        | 98.80             | 0.05   |
|           |         | 2452           | 2.46                             | 2.49                        | 98.80             | 0.05   |



## Test Graphs



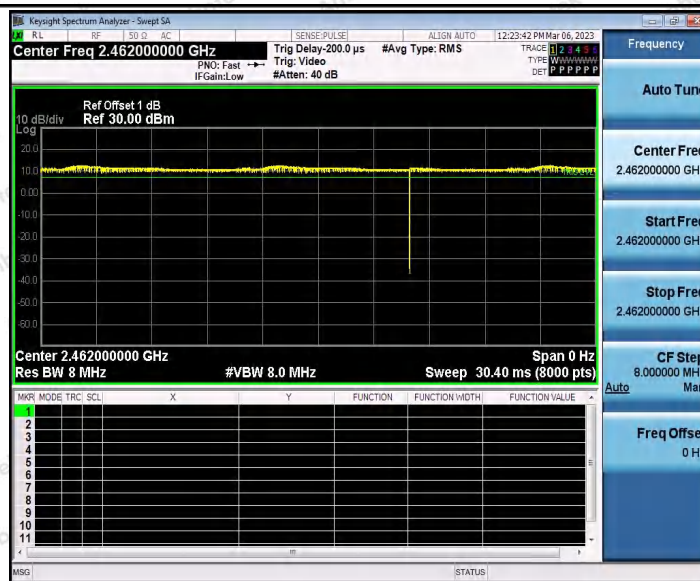
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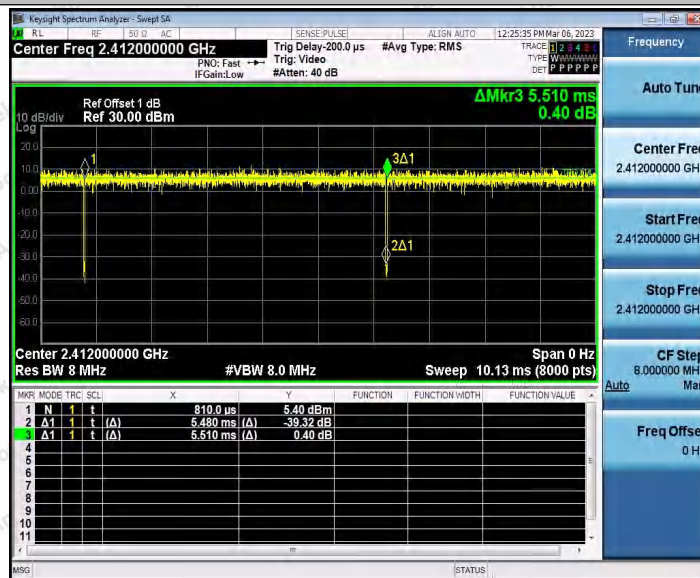


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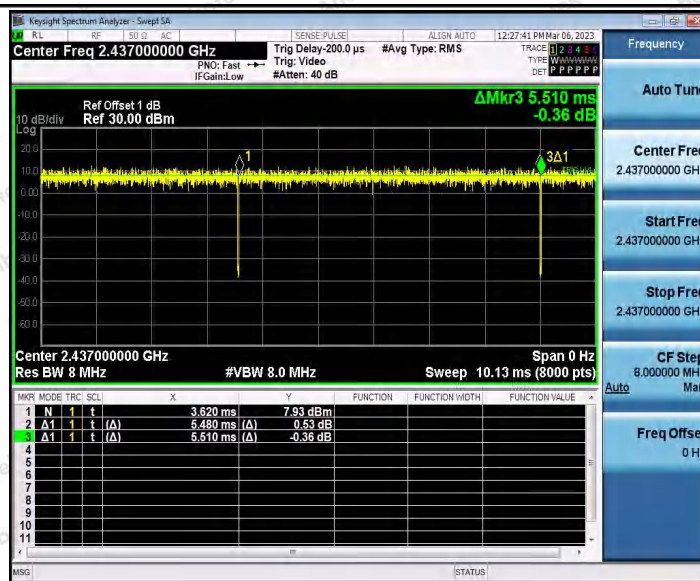


11G\_Ant1\_2412

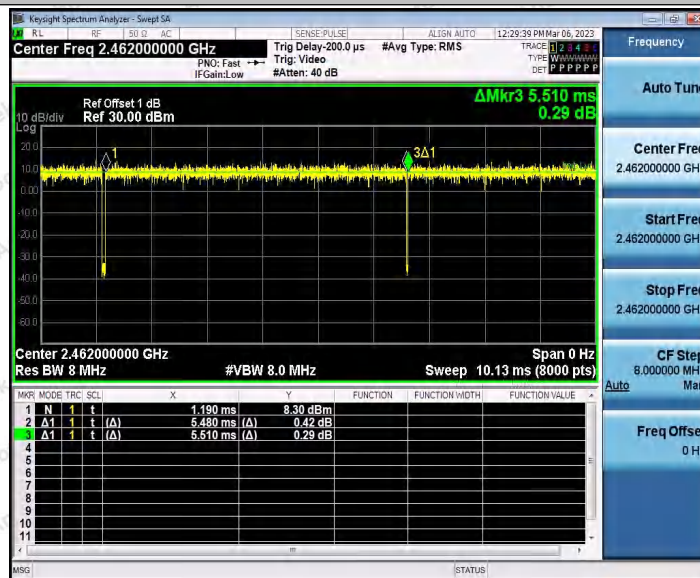


11G\_Ant1\_2437



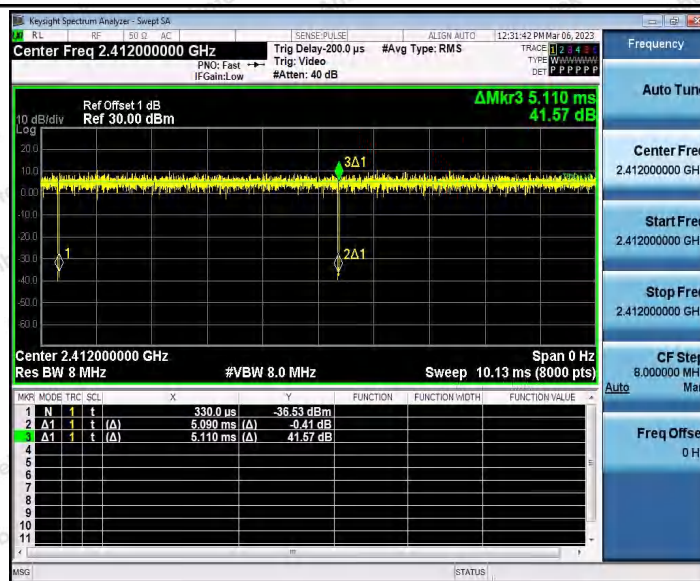


11G\_Ant1\_2462

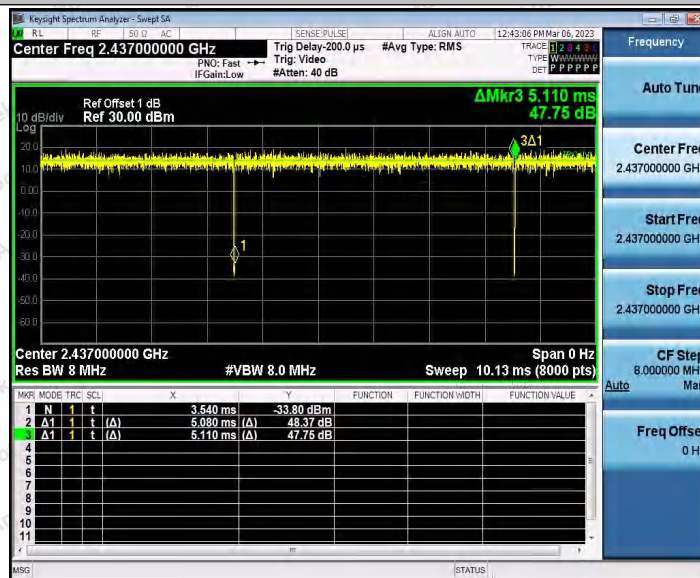


11N20SISO\_Ant1\_2412



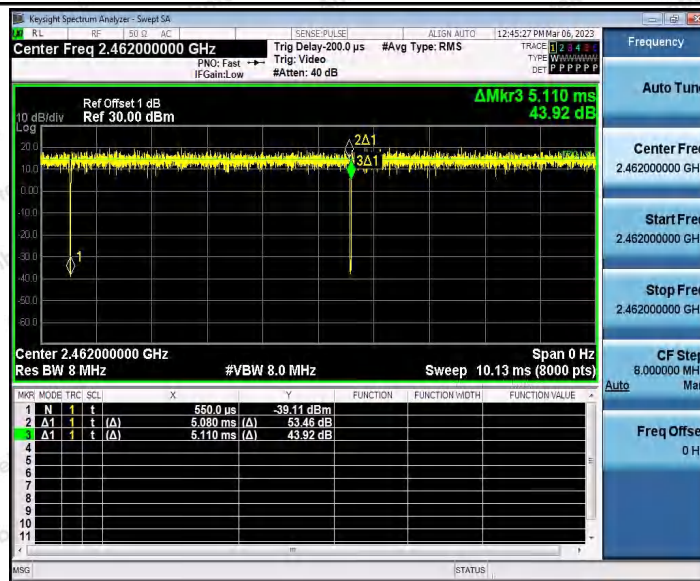


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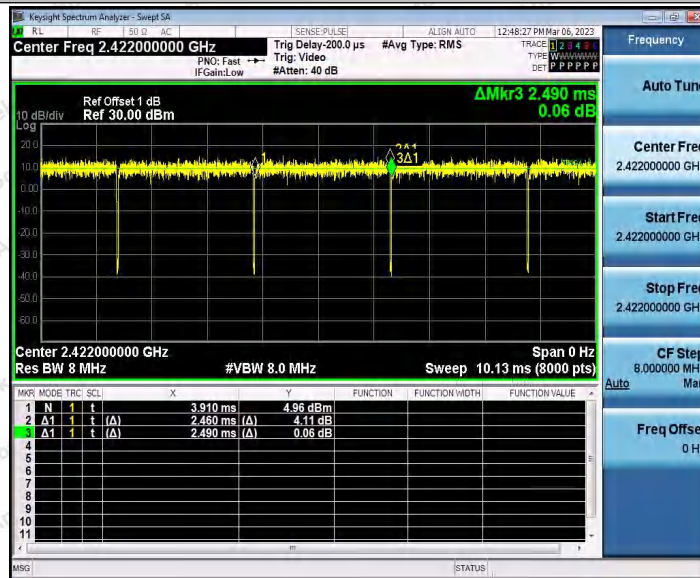


11N20SISO\_Ant1\_2462





11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437

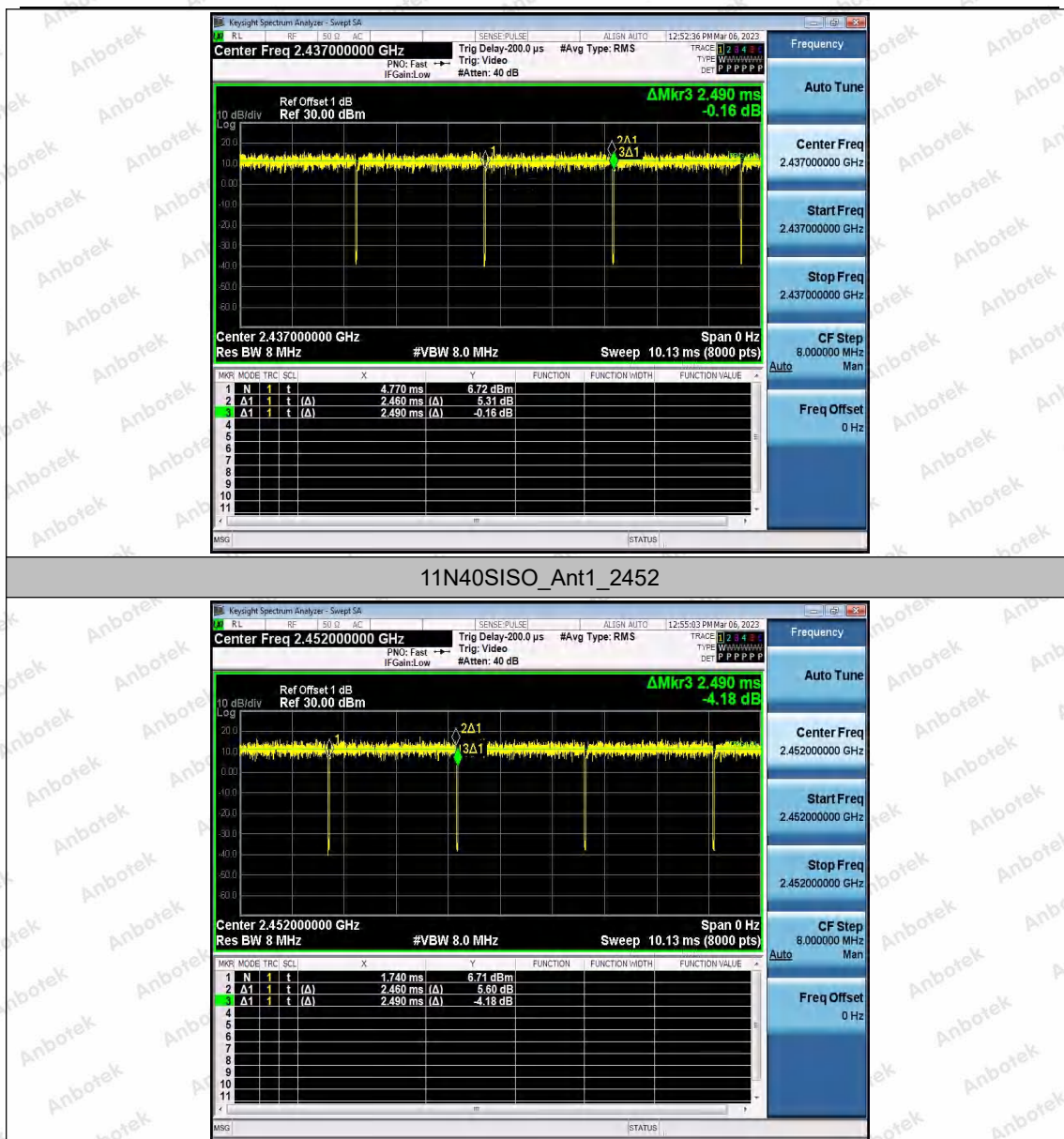
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